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October 30, 2019

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29210

RE: Duke Energy Progress, LLC – Monthly Fuel Report
Docket No. 2006-176-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of September 2019.

Thank you for your attention to this matter.

Sincerely,

Rebecca J. Dulin

Enclosure

cc: Service List

Duke Energy Progress
Summary of Monthly Fuel Report

Schedule 1

Line No.	Item	September 2019
1	Fuel and Fuel-related Costs excluding DERP incremental costs	$ 144,900,337
	MWH sales:	
2	Total System Sales	6,483,279
3	Less intersystem sales	711,351
4	Total sales less intersystem sales	5,771,928
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)	2.5104
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)	2.4771
	Generation Mix (MWH):	
	Fossil (By Primary Fuel Type):	
7	Coal	1,253,309
8	Oil	3,511
9	Natural Gas - Combustion Turbine	193,313
10	Natural Gas - Combined Cycle	1,699,211
11	Biogas	553
12	Total Fossil	3,149,898
13	Nuclear	2,342,987
14	Hydro - Conventional	13,431
15	Solar Distributed Generation	24,241
16	Total MWH generation	5,530,557

Note: Detail amounts may not add to totals shown due to rounding.

Schedule 2

Duke Energy Progress
Details of Fuel and Fuel-Related Costs

Description		September 2019
Fuel and Fuel-Related Costs:		
Steam Generation - Account 501		
0501110 coal consumed - steam	$	44,662,693
0501310 fuel oil consumed - steam		578,962
Total Steam Generation - Account 501		45,241,655
Nuclear Generation - Account 518		
0518100 burnup of owned fuel		14,667,915
Other Generation - Account 547		
0547000 natural gas consumed - Combustion Turbine		6,317,098
0547000 natural gas capacity - Combustion Turbine		1,123,448
0547000 natural gas consumed - Combined Cycle		32,122,108
0547000 natural gas capacity - Combined Cycle		11,633,736
0547106 biogas consumed - Combined Cycle		25,159
0547200 fuel oil consumed		58,920
Total Other Generation - Account 547		51,280,469
Purchased Power and Net Interchange - Account 555		
Fuel and fuel-related component of purchased power		38,746,067
Fuel and fuel-related component of DERP purchases		68,732
PURPA purchased power capacity		10,180,239
DERP purchased power capacity		19,353
Total Purchased Power and Net Interchange - Account 555		49,014,391
Less:		
Fuel and fuel-related costs recovered through intersystem sales		17,199,945
Solar Integration Charge		1,297
Total Fuel Credits - Accounts 447/456		17,201,242
Total Costs Included in Base Fuel Component	$	143,003,188
Environmental Costs		
0509030, 0509212, 0557451 emission allowance expense	$	2,165
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense		2,134,372
Emission Allowance Gains		-
Less reagents expense recovered through intersystem sales - Account 447		170,717
Less emissions expense recovered through intersystem sales - Account 447		68,672
Total Costs Included in Environmental Component		1,897,148
Fuel and Fuel-related Costs excluding DERP incremental costs	$	144,900,337
DERP Incremental Costs		232,961
Total Fuel and Fuel-related Costs	$	145,133,298

Notes: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA

SEPTEMBER 2019

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	$	$	mWh	Fuel $	Non-fuel $
Broad River Energy, LLC.	$ 9,175,443	$ 4,875,769	86,634	$ 4,299,674	-
City of Fayetteville	1,006,923	794,025	3,243	212,898	-
Haywood EMC	28,300	28,300	-	-	-
NCEMC	3,116,337	1,948,123	29,268	1,168,214	-
PJM Interconnection, LLC.	11,464	-	-	11,464	-
Southern Company Services	3,359,293	687,960	88,296	2,671,333	-
DE Carolinas - Native Load Transfer	3,308,228	-	140,785	3,295,572	$ 12,656
DE Carolinas - Native Load Transfer Benefit	223,974	-	-	223,974	-
DE Carolinas - Fees	(2,970)	-	-	(2,970)	-
Energy Imbalance	39,178		1,257	36,919	2,259
Generation Imbalance	176		59	108	68
	$ 20,266,346	**$ 8,334,177**	**349,542**	**$ 11,917,186**	**$ 14,983**
Act 236 PURPA Purchases					
Renewable Energy	$ 19,092,815	-	253,353	$ 19,092,815	-
DERP Net Metering Excess Generation	(4)	-	-	(4)	-
DERP Qualifying Facilities	88,089	-	1,766	88,089	-
Other Qualifying Facilities	17,916,305	-	274,123	17,916,305	-
	$ 37,097,205	**-**	**529,242**	**$ 37,097,205**	**-**
Total Purchased Power	**$ 57,363,551**	**$ 8,334,177**	**878,784**	**$ 49,014,391**	**$ 14,983**

NOTE: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
INTERSYSTEM SALES*
SOUTH CAROLINA

SEPTEMBER 2019

Sales	Total $	Capacity $	Non-capacity mWh	Non-capacity Fuel $	Non-capacity Non-fuel $
Utilities:					
DE Carolinas - As Available Capacity	$ 82,737	$ 82,737	-	-	-
Market Based:					
NCEMC Purchase Power Agreement	$ 1,094,177	$ 652,500	12,526	$ 459,315	$ (17,638)
PJM Interconnection, LLC.	58,864	-	1,175	35,801	23,063
Other:					
DE Carolinas - Native Load Transfer Benefit	$ 1,873,258	-	-	$ 1,873,258	-
DE Carolinas - Native Load Transfer	16,084,094	-	697,597	15,070,959	$ 1,013,135
Generation Imbalance	-	-	53	-	-
Total Intersystem Sales	**$ 19,193,130**	**$ 735,237**	**711,351**	**$ 17,439,333**	**$ 1,018,560**

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
September 2019

Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					5,771,928,238
2	DERP Net Metered kWh generation	Input					2,265,688
3	Adjusted System kWh sales	L1 + L2					5,774,193,926
4	Actual S.C. Retail kWh sales	Input	195,229,242	29,471,447	358,897,377	6,459,474	590,057,540
5	DERP Net Metered kWh generation	Input	1,096,028	25,660	1,144,000		2,265,688
6	Adjusted S.C. Retail kWh sales	L4 + L5	196,325,270	29,497,107	360,041,377	6,459,474	592,323,228
7	Actual S.C. Demand units (kw)	L32 / 31b *100			686,870		
	Base fuel component of recovery - non-capacity						
8	Incurred System base fuel - non-capacity expense	Input					$119,977,679
9	Eliminate avoided fuel benefit of S.C. net metering	Input					$72,751
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					$120,050,430
11	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L10 / L3 * 100					2.079
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	$4,081,770	$613,270	$7,485,568	$134,298	$12,314,906
13	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	(44,311)	(4,631)	(23,809)	$0	($72,751)
14	S.C. Retail portion of incurred system expense	L12 + L13	$4,037,459	$608,639	$7,461,759	$134,298	$12,242,155
15	Billed base fuel - non-capacity rate (¢/kWh) - Note 1	Input	2.075	2.075	2.075	2.075	2.075
16	Billed base fuel - non-capacity revenue	L4 * L15 /100	$4,050,020	$611,533	$7,447,121	$134,034	$12,242,708
17	DERP NEM incentive - fuel component	Input	($7,493)	($783)	($4,026)	$0	($12,302)
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	$4,042,527	$610,750	$7,443,095	$134,034	$12,230,406
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L18 - L14	($5,068)	($2,111)	$18,664	$264	$11,749
20	Adjustment	Input					
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20	($5,068)	($2,111)	$18,664	$264	$11,749
	Base fuel component of recovery - capacity						
22a	Incurred base fuel - capacity rates by class (¢/kWh)	L23 / L4 * 100	0.732	0.506			
22b	Incurred base fuel - capacity rate (¢/kW)	L23 / L7 * 100			112		
23	Incurred S.C. base fuel - capacity expense	Input	$1,428,200	149,260.00	$767,406		$2,344,866
24a	Billed base fuel - capacity rates by class (¢/kWh) - Note 2	Input	0.692	0.522			
24b	Billed base fuel - capacity rate (¢/kW)	Input			92		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 /100	$1,350,652	$153,841	$ 631,871	$0	$2,136,364
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L25 - L23	$77,548	($4,581)	$135,535	$0	$208,502
27	Adjustment	Input					
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	$77,548	($4,581)	$135,535	$0	$208,502
	Environmental component of recovery						
29a	Incurred environmental rates by class (¢/kWh)	L30 / L4 * 100	0.061	0.042			
29b	Incurred environmental rate (¢/kW)	L30 / L7 * 100			9		
30	Incurred S.C. environmental expense	Input	$118,126	$12,345	$63,472		$193,943
31a	Billed environmental rates by class (¢/kWh) - Note 3	Input	0.074	0.057			
31b	Billed environmental rate (¢/kW)	Input			10		
32	Billed S.C. environmental revenue	L31a * L4 /100	$145,335	$16,799	$ 68,687		$230,821
33	S.C. environmental (over)/under recovery [See footnote]	L32 - L30	($27,209)	($4,454)	($5,215)	$0	($36,878)
34	Adjustment	Input					$0
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	($27,209)	($4,454)	($5,215)	$0	($36,878)
	Distributed Energy Resource Program component of recovery: avoided costs						
36a	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	L37 / L4 * 100	0.003	0.002			
36b	Incurred S.C. DERP avoided cost rates by class (¢/kW)	L37 / L7 * 100			0.429		
37	Incurred S.C. DERP avoided cost expense	Input	5,485.00	$573	$2,947		$9,005
38a	Billed S.C. DERP avoided cost rates by class (¢/kWh) - Note 4	Input	0.003	0.003			
38b	Billed S.C. DERP avoided cost rates by class (¢/kW)	Input			0		
39	Billed S.C. DERP avoided cost revenue	L38a * L4 /100	$5,814	$884	$0		$6,698
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L39 - L37	($329)	($311)	$2,947	$0	$2,307
41	Adjustment	Input					
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41	($329)	($311)	$2,947	$0	$2,307
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42	$44,942	($11,457)	$151,931	$264	$185,680

Year 2019-2020

Cumulative (over) / under recovery - BASE FUEL NON-CAPACITY	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2019	$13,424,397					
March 2019 - actual	13,142,207	(113,956)	(15,296)	(148,555)	(4,383)	($282,190)
April 2019 - actual	12,482,712	(178,213)	(25,629)	(447,263)	(8,390)	(659,495)
May 2019 - actual	12,391,437	(39,695)	(9,623)	(40,702)	(1,255)	(91,275)
June 2019 - actual	11,820,549	(204,177)	(33,436)	(326,075)	(7,200)	(570,888)
July 2019 - actual	11,960,164	30,794	2,958	104,254	1,609	139,615
August 2019 - actual	12,138,158	50,982	6,141	118,902	1,969	177,994
September 2019 - actual	12,149,907	(5,068)	(2,111)	18,664	264	11,749
_/5 October 2019 - forecast	11,466,112	(208,221)	(33,951)	(431,333)	(10,290)	(683,795)
_/5 November 2019 - forecast	11,239,995	(67,740)	(11,192)	(143,741)	(3,444)	(226,117)
_/5 December 2019 - forecast	10,270,318	(350,470)	(43,139)	(562,593)	(13,475)	(969,677)
_/5 January 2020 - forecast	9,439,805	(338,116)	(34,710)	(447,007)	(10,680)	(830,513)
_/5 February 2020 - forecast	8,325,370	(449,048)	(47,035)	(603,928)	(14,424)	(1,114,435)
_/5 March 2020 - forecast	7,474,469	(315,215)	(38,779)	(485,292)	(11,615)	(850,901)
_/5 April 2020 - forecast	5,324,959	(677,876)	(108,128)	(1,331,673)	(31,833)	(2,149,510)
_/5 May 2020 - forecast	4,153,546	(331,416)	(61,776)	(760,065)	(18,156)	(1,171,413)
_/5 June 2020 - forecast	$ 3,984,448	($53,326)	($8,490)	($104,793)	($2,489)	($169,098)

Year 2019-2020

Cumulative (over) / under recovery - BASE FUEL CAPACITY	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2019	$574,929					
March 2019 - actual	320,452	(158,950)	9,884	(105,411)	0	($254,477)
April 2019 - actual	800,238	332,772	51,683	95,331	0	479,786
May 2019 - actual	924,824	125,236	18,384	(19,034)	0	124,586
June 2019 - actual	844,129	(99,572)	(1,971)	20,848	0	(80,695)
July 2019 - actual	1,259,813	196,610	25,312	193,762	0	415,684
August 2019 - actual	2,465,773	642,873	56,685	506,402	0	1,205,960
September 2019 - actual	2,674,275	77,548	(4,581)	135,535	0	208,502
_/5 October 2019 - forecast	2,871,656	180,206	6,049	11,126	0	197,381
_/5 November 2019 - forecast	3,056,910	190,144	5,337	(10,227)	0	185,254
_/5 December 2019 - forecast	2,708,051	(243,895)	(3,619)	(101,345)	0	(348,859)
_/5 January 2020 - forecast	2,167,993	(574,205)	(6,512)	40,659	0	(540,058)
_/5 February 2020 - forecast	1,645,699	(506,119)	(3,085)	(13,090)	0	(522,294)
_/5 March 2020 - forecast	1,544,551	(108,014)	14,689	(7,823)	0	(101,148)
_/5 April 2020 - forecast	1,928,218	256,657	19,529	107,481	0	383,667
_/5 May 2020 - forecast	2,281,457	350,538	12,041	(9,340)	0	353,239
_/5 June 2020 - forecast	$ 2,258,777	$66,293	($565)	($88,408)	$0	($22,680)

Year 2019-2020

Cumulative (over) / under recovery - ENVIRONMENTAL	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2019	$199,207					
March 2019 - actual	275,991	40,490	5,702	30,592	0	$76,784
April 2019 - actual	324,903	24,694	3,770	20,448	0	48,912
May 2019 - actual	427,128	57,448	6,955	37,822	0	102,225
June 2019 - actual	515,935	46,245	6,142	36,420	0	88,807
July 2019 - actual	585,999	35,423	4,025	30,616	0	70,064
August 2019 - actual	533,582	(41,088)	(5,683)	(5,646)	0	(52,417)
September 2019 - actual	496,704	(27,209)	(4,454)	(5,215)	0	(36,878)
_/5 October 2019 - forecast	426,903	(35,480)	(5,289)	(29,032)	0	(69,801)
_/5 November 2019 - forecast	379,684	(19,873)	(3,838)	(23,508)	0	(47,219)
_/5 December 2019 - forecast	363,072	(12,901)	808	(4,519)	0	(16,612)
_/5 January 2020 - forecast	369,388	(22,042)	3,253	25,105	0	6,316
_/5 February 2020 - forecast	379,330	(13,629)	3,737	19,834	0	9,942
_/5 March 2020 - forecast	308,217	(47,707)	(2,388)	(21,018)	0	(71,113)
_/5 April 2020 - forecast	152,424	(91,875)	(10,585)	(53,333)	0	(155,793)
_/5 May 2020 - forecast	19,975	(65,502)	(9,693)	(57,254)	0	(132,449)
_/5 June 2020 - forecast	$ (53,115)	($35,263)	($4,701)	($33,126)	$0	($73,090)

Year 2019-2020

Cumulative (over) / under recovery - DERP AVOIDED COSTS	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2019	$19,288					
March 2019 - actual	17,381	(2,803)	(12)	908	0	($1,907)
April 2019 - actual	21,608	1,112	352	2,763	0	4,227
May 2019 - actual	24,699	471	253	2,367	0	3,091
June 2019 - actual	28,250	252	306	2,993	0	3,551
July 2019 - actual	25,974	(3,344)	(290)	1,358	0	(2,276)
August 2019 - actual	21,827	(4,411)	(739)	1,003	0	(4,147)
September 2019 - actual	24,134	(329)	(311)	2,947	0	2,307
_/5 October 2019 - forecast	21,856	(1,396)	(387)	(495)	0	(2,278)
_/5 November 2019 - forecast	19,766	(1,206)	(367)	(517)	0	(2,090)
_/5 December 2019 - forecast	15,923	(2,767)	(373)	(703)	0	(3,843)
_/5 January 2020 - forecast	18,681	416	92	2,250	0	2,758
_/5 February 2020 - forecast	21,699	784	116	2,118	0	3,018
_/5 March 2020 - forecast	25,683	1,935	135	1,914	0	3,984
_/5 April 2020 - forecast	31,911	3,649	170	2,409	0	6,228
_/5 May 2020 - forecast	38,422	4,259	157	2,095	0	6,511
_/5 June 2020 - forecast	$ 42,650	$2,612	$51	$1,565	$0	$4,228

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
September 2019

Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: incremental costs						
44	Incurred S.C. DERP incremental expense	Input	$141,891	$56,165	$34,905	$232,961
45	Billed S.C. DERP incremental rates by account ($/account)	Input	1.00	2.02	99.56	
46	Billed S.C. DERP incremental revenue	Input	$138,355	$65,098	$26,456	$229,909
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	$3,536	($8,933)	$8,449	$3,052
48	Adjustment	Input				
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	$3,536	($8,933)	$8,449	$3,052

Year 2019-2020

	Cumulative (over) / under recovery	Cumulative	Total
	Balance ending February 2019	$6,239	
	March 2019 - actual	107,362	$101,123
	April 2019 - actual	(62,019)	(169,381)
	May 2019 - actual	13,138	75,157
	June 2019 - actual	48,966	35,828
	July 2019 - actual	95,723	46,757
	August 2019 - actual	82,651	(13,072)
	September 2019 - actual	85,703	3,052
_/5	October 2019 - forecast	103,795	18,092
_/5	November 2019 - forecast	106,636	2,841
_/5	December 2019 - forecast	101,603	(5,033)
_/5	January 2020 - forecast	94,892	(6,711)
_/5	February 2020 - forecast	91,447	(3,445)
_/5	March 2020 - forecast	113,460	22,013
_/5	April 2020 - forecast	155,101	41,641
_/5	May 2020 - forecast	199,220	44,119
_/5	June 2020 - forecast	$247,594	$48,374

Notes:
Detail amounts may not recalculate due to percentages presented as rounded.
Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.
Under collections, or regulatory assets, are shown as positive amounts.

_/1 Total residential billed fuel non-capacity rate is a composite rate reflecting the 7/1/19 approved residential rate of 2.090 and RECD 5% discount.
_/2 Total residential billed fuel capacity rate is a composite rate reflecting the 7/1/19 approved residential rate of .697 and RECD 5% discount.
_/3 Total residential billed environmental rate is a composite rate reflecting the 7/1/19 approved residential rate of .075 and RECD 5% discount.
_/4 Total residential billed DERP avoided capacity rate is a composite rate reflecting the 7/1/19 approved residential rate of .003 and RECD 5% discount.
_/5 Forecast amounts based on low end of range of expected fuel rates.

Description	Weatherspoon CT	Lee CC	Sutton CC/CT	Robinson Nuclear	Asheville Steam	Asheville CC/CT	Roxboro Steam	Mayo Steam
Cost of Fuel Purchased ($)								
Coal	-	-	-	-	$1,635,830	-	$20,458,226	$5,055,877
Oil	-	-	-	$12,909	-	-	287,581	143,966
Gas - CC	-	$15,418,669	$10,963,878	-	-	$2,155,842	-	-
Gas - CT	$24	-	834,402	-	-	1,004,368	-	-
Biogas	-	-	-	-	-	-	-	-
Total	$24	$15,418,669	$11,798,280	$12,909	$1,635,830	$3,160,210	$20,745,807	$5,199,843
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	294.15	-	290.20	281.64
Oil	-	-	-	1,357.41	-	-	1,403.24	1,404.82
Gas - CC	-	342.95	411.51	-	-	2,122.06	-	-
Gas - CT	-	-	357.82	-	-	321.93	-	-
Biogas	-	-	-	-	-	-	-	-
Weighted Average	-	342.95	407.19	1,357.41	294.15	764.11	293.43	288.02
Cost of Fuel Burned ($)								
Coal	-	-	-	-	$3,826,820	-	$30,207,243	$10,628,630
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	-	-	-	-	92,141	$787	234,657	252,165
Gas - CC	-	$15,418,669	$10,963,878	-	-	2,155,842	-	-
Gas - CT	$24	-	834,402	-	-	1,004,368	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	$2,907,934	-	-	-	-
Total	$24	$15,418,669	$11,798,280	$2,907,934	$3,918,961	$3,160,997	$30,441,900	$10,880,795
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	293.43	-	333.97	322.94
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	-	-	-	-	1,504.34	1,543.14	1,452.98	1,499.64
Gas - CC	-	342.95	411.51	-	-	2,122.06	-	-
Gas - CT	-	-	357.82	-	-	321.93	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	55.67	-	-	-	-
Weighted Average	-	342.95	407.19	55.67	299.09	764.21	335.97	328.92
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	3.29	-	3.62	3.52
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	-	-	-	-	16.70	19.68	15.42	16.36
Gas - CC	-	2.52	3.13	-	-	18.28	-	-
Gas - CT	-	-	3.40	-	-	3.55	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	0.59	-	-	-	-
Weighted Average	-	2.52	3.15	0.59	3.36	7.89	3.64	3.59
Burned MBTU's								
Coal	-	-	-	-	1,304,181	-	9,044,763	3,291,213
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	-	-	-	-	6,125	51	16,150	16,815
Gas - CC	-	4,495,939	2,664,274	-	-	101,592	-	-
Gas - CT	-	-	233,191	-	-	311,987	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	5,223,303	-	-	-	-
Total	-	4,495,939	2,897,465	5,223,303	1,310,306	413,630	9,060,913	3,308,028
Net Generation (mWh)								
Coal	-	-	-	-	116,141	-	835,479	301,689
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	-	-	-	-	552	4	1,522	1,541
Gas - CC	-	612,374	349,903	-	-	11,795	-	-
Gas - CT	(68)	-	24,551	-	-	28,266	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	494,085	-	-	-	-
Hydro (Total System)	-	-	-	-	-	-	-	-
Solar (Total System)	-	-	-	-	-	-	-	-
Total	(68)	612,374	374,454	494,085	116,693	40,065	837,001	303,230
Cost of Reagents Consumed ($)								
Ammonia	-	-	-	-	-	-	$186,191	$50,051
Limestone	-	-	-	-	$140,608	-	814,424	389,609
Re-emission Chemical	-	-	-	-	-	-	-	-
Sorbents	-	-	-	-	5,765	-	245,957	201,397
Urea	-	-	-	-	82,980	-	-	-
Total	-	-	-	-	$229,353	-	$1,246,572	$641,056

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

Description	Brunswick Nuclear	Blewett CT	Wayne County CT	Darlington CT	Smith Energy Complex CC/CT	Harris Nuclear	Current Month	Total 12 ME September 2019
Cost of Fuel Purchased ($)								
Coal	-	-	-	-	-	-	$27,149,933	$373,696,326
Oil	$15,225	-	-	-	-	-	459,681	17,873,121
Gas - CC	-	-	-	-	$15,217,455	-	43,755,844	556,777,934
Gas - CT	-	-	$819,997	$183,018	4,598,737	-	7,440,546	120,170,992
Biogas	-	-	-	-	115,384	-	115,384	1,548,005
Total	$15,225	-	$819,997	$183,018	$19,816,192	-	$78,921,388	$1,070,066,378
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	-	-	288.80	340.22
Oil	1,485.37	-	-	-	-	-	1,404.98	1,573.99
Gas - CC	-	-	-	-	308.41	-	358.77	411.30
Gas - CT	-	-	295.85	319.38	308.31	-	313.78	394.83
Biogas	-	-	-	-	3,050.87	-	3,050.87	2,898.94
Weighted Average	1,485.37	-	295.85	319.38	310.00	-	328.78	386.54
Cost of Fuel Burned ($)								
Coal	-	-	-	-	-	-	$44,662,693	$353,541,437
Oil - CC	-	-	-	-	$483	-	483	2,276
Oil - Steam/CT	-	-	-	$45,521	12,129	-	637,400	14,211,677
Gas - CC	-	-	-	-	15,217,455	-	43,755,844	556,777,934
Gas - CT	-	-	819,997	183,018	4,598,737	-	7,440,546	120,170,992
Biogas	-	-	-	-	115,384	-	115,384	1,548,005
Nuclear	$7,119,553	-	-	-	-	$4,640,428	14,667,915	178,958,858
Total	$7,119,553	-	$819,997	$228,539	19,944,188.00	$4,640,428	$111,280,265	$1,225,211,179
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	-	-	327.44	343.19
Oil - CC	-	-	-	-	1,665.52	-	1,665.52	1,661.31
Oil - Steam/CT	-	-	-	1,724.93	1,661.51	-	1,499.41	1,490.59
Gas - CC	-	-	-	-	308.41	-	358.77	411.30
Gas - CT	-	-	295.85	319.38	308.31	-	313.78	394.83
Biogas	-	-	-	-	3,050.87	-	3,050.87	2,898.94
Nuclear	57.39	-	-	-	-	64.95	59.21	60.30
Weighted Average	57.39	-	295.85	381.25	310.16	64.95	209.85	216.23
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	3.56	3.79
Oil - CC	-	-	-	-	24.15	-	24.15	18.97
Oil - Steam/CT	-	-	-	-	19.08	-	18.16	20.92
Gas - CC	-	-	-	-	2.10	-	2.58	2.95
Gas - CT	-	-	3.82	4.03	4.02	-	3.85	4.43
Biogas	-	-	-	-	20.86	-	20.86	19.76
Nuclear	0.61	-	-	-	-	0.67	0.63	0.63
Weighted Average	0.61	-	3.82	5.17	2.37	0.67	2.01	2.03
Burned MBTU's								
Coal	-	-	-	-	-	-	13,640,157	103,015,147
Oil - CC	-	-	-	-	29	-	29	137
Oil - Steam/CT	-	-	-	2,639	730	-	42,510	953,427
Gas - CC	-	-	-	-	4,934,129	-	12,195,934	135,371,298
Gas - CT	-	-	277,165	57,305	1,491,609	-	2,371,257	30,435,931
Biogas	-	-	-	-	3,782	-	3,782	53,399
Nuclear	12,406,247	-	-	-	-	7,144,968	24,774,518	296,799,857
Total	12,406,247	-	277,165	59,944	6,430,279	7,144,968	53,028,187	566,629,196
Net Generation (mWh)								
Coal	-	-	-	-	-	-	1,253,309	9,328,283
Oil - CC	-	-	-	-	2	-	2	12
Oil - Steam/CT	-	(47)	-	(126)	64	-	3,509	67,942
Gas - CC	-	-	-	-	725,139	-	1,699,211	18,880,518
Gas - CT	-	-	21,480	4,547	114,536	-	193,313	2,712,960
Biogas	-	-	-	-	553	-	553	7,836
Nuclear	1,161,163	-	-	-	-	687,739	2,342,987	28,434,178
Hydro (Total System)	-	-	-	-	-	-	13,431	759,570
Solar (Total System)	-	-	-	-	-	-	24,241	245,594
Total	1,161,163	(47)	21,480	4,421	840,295	687,739	5,530,557	60,436,893
Cost of Reagents Consumed ($)								
Ammonia	-	-	-	-	$17,391	-	$253,633	$1,982,652
Limestone	-	-	-	-	-	-	1,344,640	11,326,996
Re-emission Chemical	-	-	-	-	-	-	-	0
Sorbents	-	-	-	-	-	-	453,119	3,416,448
Urea	-	-	-	-	-	-	82,980	1,213,124
Total	-	-	-	-	$17,391	-	$2,134,372	$17,939,221

Description	Weatherspoon	Lee	Sutton	Robinson	Asheville
Coal Data:					
Beginning balance	-	-	-	-	56,046
Tons received during period	-	-	-	-	21,262
Inventory adjustments	-	-	-	-	-
Tons burned during period	-	-	-	-	52,226
Ending balance	-	-	-	-	25,082
MBTUs per ton burned	-	-	-	-	24.97
Cost of ending inventory ($/ton)	-	-	-	-	73.27
Oil Data:					
Beginning balance	641,477	-	2,620,038	78,040	3,062,779
Gallons received during period	-	-	-	6,890	-
Miscellaneous use and adjustments	-	-	-	-	(4,333)
Gallons burned during period	-	-	-	6,890	44,032
Ending balance	641,477	-	2,620,038	78,040	3,014,414
Cost of ending inventory ($/gal)	2.23	-	2.80	2.38	2.11
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	4,364,527	2,813,793	-	401,608
MCF burned during period	-	4,364,527	2,813,793	-	401,608
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	-
MCF burned during period	-	-	-	-	-
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	-	11,478
Tons received during period	-	-	-	-	25
Inventory adjustments	-	-	-	-	-
Tons consumed during period	-	-	-	-	3,009
Ending balance	-	-	-	-	8,494
Cost of ending inventory ($/ton)	-	-	-	-	45.23

Description	Roxboro	Mayo	Brunswick	Blewett	Wayne County
Coal Data:					
Beginning balance	957,003	478,636	-	-	-
Tons received during period	280,773	70,948	-	-	-
Inventory adjustments	-	-	-	-	-
Tons burned during period	359,697	130,723	-	-	-
Ending balance	878,079	418,861	-	-	-
MBTUs per ton burned	25.15	25.18	-	-	-
Cost of ending inventory ($/ton)	83.69	81.31	-	-	-
Oil Data:					
Beginning balance	364,694	270,800	158,619	771,806	11,924,861
Gallons received during period	148,509	74,263	7,425	-	-
Miscellaneous use and adjustments	(14,854)	(3,052)	-	-	-
Gallons burned during period	116,259	122,264	5,082	-	-
Ending balance	382,090	219,747	160,962	771,806	11,924,861
Cost of ending inventory ($/gal)	2.02	2.06	2.38	2.37	2.40
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	269,192
MCF burned during period	-	-	-	-	269,192
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	-
MCF burned during period	-	-	-	-	-
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	78,547	21,305	-	-	-
Tons received during period	10,424	8,013	-	-	-
Inventory adjustments	-	-	-	-	-
Tons consumed during period	19,965	8,039	-	-	-
Ending balance	69,006	21,279	-	-	-
Cost of ending inventory ($/ton)	38.29	46.23	-	-	-

Description	Darlington	Smith Energy Complex	Harris	Current Month	Total 12 ME September 2019
Coal Data:					
Beginning balance	-	-	-	1,491,685	1,086,333
Tons received during period	-	-	-	372,983	4,354,378
Inventory adjustments	-	-	-	-	(22,721)
Tons burned during period	-	-	-	542,646	4,095,968
Ending balance	-	-	-	1,322,022	1,322,022
MBTUs per ton burned	-	-	-	25.14	25.15
Cost of ending inventory ($/ton)	-	-	-	82.74	82.74
Oil Data:					
Beginning balance	10,363,282	8,174,113	287,238	38,717,747	37,324,201
Gallons received during period	-	-	-	237,087	8,228,494
Miscellaneous use and adjustments	-	-	-	(22,239)	(203,863)
Gallons burned during period	19,023	5,418	15,301	334,269	6,750,506
Ending balance	10,344,259	8,168,695	271,937	38,598,326	38,598,326
Cost of ending inventory ($/gal)	2.39	2.33	2.38	2.38	2.38
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	55,764	6,240,310	-	14,145,194	160,906,999
MCF burned during period	55,764	6,240,310	-	14,145,194	160,906,999
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	3,673	-	3,673	51,877
MCF burned during period	-	3,673	-	3,673	51,877
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	111,330	102,494
Tons received during period	-	-	-	18,462	247,375
Inventory adjustments	-	-	-	-	(2,124)
Tons consumed during period	-	-	-	31,013	248,966
Ending balance	-	-	-	98,779	98,779
Cost of ending inventory ($/ton)	-	-	-	40.60	40.60

Schedule 7

DUKE ENERGY PROGRESS

ANALYSIS OF COAL PURCHASED

SEPTEMBER 2019

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ASHEVILLE	SPOT	-	-	-
	CONTRACT	21,262	$ 1,601,646	$ 75.33
	FIXED TRANSPORTATION/ADJUSTMENTS	-	34,184	-
	TOTAL	21,262	1,635,830	76.94
MAYO	SPOT	45,183	2,814,443	62.29
	CONTRACT	25,765	1,685,546	65.42
	FIXED TRANSPORTATION/ADJUSTMENTS	-	555,888	-
	TOTAL	70,948	5,055,877	71.26
ROXBORO	SPOT	76,853	5,590,256	72.74
	CONTRACT	203,920	13,891,760	68.12
	FIXED TRANSPORTATION/ADJUSTMENTS	-	976,210	-
	TOTAL	280,773	20,458,226	72.86
ALL PLANTS	SPOT	122,036	8,404,699	68.87
	CONTRACT	250,947	17,178,952	68.46
	FIXED TRANSPORTATION/ADJUSTMENTS	-	1,566,282	-
	TOTAL	372,983	$ 27,149,933	$ 72.79

Schedule 8

DUKE ENERGY PROGRESS

ANALYSIS OF COAL QUALITY RECEIVED

SEPTEMBER 2019

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ASHEVILLE	5.62	7.88	13,078	0.87
MAYO	7.15	8.74	12,651	2.45
ROXBORO	5.99	10.03	12,554	1.44

DUKE ENERGY PROGRESS

ANALYSIS OF OIL PURCHASED

SEPTEMBER 2019

	BRUNSWICK	MAYO	ROBINSON	ROXBORO
VENDOR	Hightowers Petroleum Co.	Greensboro Tank Farm	Hightowers Petroleum Co.	Greensboro Tank Farm
SPOT/CONTRACT	Contract	Contract	Contract	Contract
SULFUR CONTENT %	0	0	0	0
GALLONS RECEIVED	7,425	74,263	6,890	148,509
TOTAL DELIVERED COST	$ 15,225	$ 143,966	$ 12,909	$ 287,581
DELIVERED COST/GALLON	$ 2.05	$ 1.94	$ 1.87	$ 1.94
BTU/GALLON	138,000	138,000	138,000	138,000

Notes:

Pricing Adjustments of $2,602 for the Brunswick station and $1,196 for the Robinson station are excluded.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
October, 2018 - September, 2019
Nuclear Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Brunswick 1	7,742,073	938	94.22	93.70
Brunswick 2	6,897,968	932	84.49	85.84
Harris 1	8,573,105	956	102.38	99.89
Robinson 2	5,221,032	741	80.43	76.74

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
October, 2018 through September, 2019
Combined Cycle Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,411,101	225	71.59	79.49
Lee Energy Complex	1B	1,403,745	227	70.59	78.37
Lee Energy Complex	1C	1,422,226	228	71.21	77.99
Lee Energy Complex	ST1	2,825,691	379	85.11	90.64
Lee Energy Complex	Block Total	7,062,763	1,059	76.13	82.92
Richmond County CC	7	1,231,314	193	72.93	81.15
Richmond County CC	8	1,232,463	193	73.00	81.36
Richmond County CC	ST4	1,390,644	180	88.08	89.05
Richmond County CC	9	1,234,105	216	65.22	73.54
Richmond County CC	10	1,236,692	216	65.36	72.97
Richmond County CC	ST5	1,627,450	248	74.91	79.27
Richmond County CC	Block Total	7,952,668	1,246	72.88	79.20
Sutton Energy Complex	1A	1,250,438	224	63.73	77.25
Sutton Energy Complex	1B	1,226,107	224	62.49	73.51
Sutton Energy Complex	ST1	1,370,157	271	57.72	72.66
Sutton Energy Complex	Block Total	3,846,702	719	61.07	74.35

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
October, 2018 through September, 2019

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	1,519,254	746	23.25	73.11
Roxboro 2	1,426,282	673	24.19	77.99
Roxboro 3	1,906,129	698	31.17	67.38
Roxboro 4	2,500,172	711	40.14	73.80

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
October, 2018 through September, 2019
Other Cycling Steam Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Asheville	1	805,335	192	47.88	95.17
Asheville	2	486,894	192	28.95	95.90
Roxboro	1	731,818	380	21.98	85.01

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
October, 2018 through September, 2019
Combustion Turbine Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	186,717	370	79.57
Blewett CT	-374	68	98.53
Darlington CT	58,424	784	91.28
Richmond County CT	2,076,163	934	89.04
Sutton Fast Start CT	188,641	98	89.88
Wayne County CT	223,983	963	94.69
Weatherspoon CT	-254	164	89.70

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
October, 2018 through September, 2019
Hydroelectric Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	-420	27.0	0.00
Marshall	-329	4.0	0.76
Tillery	294,011	84.0	90.87
Walters	466,308	113.0	69.81

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
October, 2018 through September, 2019
Pre-commercial Combined Cycle Units

Note: The Power Plant Performance Data reports are limited to capturing data beginning the first full month a station is in commercial operation. During the months specified below, Asheville CC produced pre-commercial generation.

Production Month	Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
August 2019	Asheville	5	14,438	n/a	n/a	n/a
September 2019	Asheville	5	972	n/a	n/a	n/a
September 2019	Asheville	7	10,823	n/a	n/a	n/a